Masoud Moshtaghi

List of Publications by Year
in descending order

19	473	516215 16	794141 19
papers	citations	h-index	g-index

19	19	19	136
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Unraveling the effect of dislocations and deformation-induced boundaries on environmental hydrogen embrittlement behavior of a cold-rolled Alâ€“Znâ€“Mgâ€“Cu alloy. International Journal of Hydrogen Energy, 2021, 46, 8285-8299.	3.8	48
2	On the role of traps in the microstructural control of environmental hydrogen embrittlement of a 7xxx series aluminum alloy. Journal of Alloys and Compounds, 2021, 855, 157300.	2.8	41
3	Environmental hydrogen embrittlement associated with decohesion and void formation at soluble coarse particles in a cold-rolled Alâ€“Cu based alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2021, 799, 139850.	2.6	37
4	Mechanisms of hydrogen embrittlement in high-strength aluminum alloys containing coherent or incoherent dispersoids. Corrosion Science, 2022, 194, 109895.	3.0	35
5	Hydrogen trapping and desorption affected by ferrite grain boundary types in shielded metal and flux-cored arc weldments with Ni addition. International Journal of Hydrogen Energy, 2022, 47, 20676-20683.	3.8	35
6	Effect of strain rate on environmental hydrogen embrittlement susceptibility of a severely cold-rolled Alâ€“Cu alloy. Vacuum, 2020, 172, 109057.	1.6	30
7	Effect of environmental relative humidity on hydrogen-induced mechanical degradation in an Alâ€“Znâ€“Mgâ€“Cu alloy. Vacuum, 2021, 192, 110489.	1.6	28
8	Effect of solution treatment temperature on grain boundary composition and environmental hydrogen embrittlement of an Alâ€“Znâ€“Mgâ€“Cu alloy. Vacuum, 2021, 184, 109937.	1.6	26
9	Influence of microstructure-driven hydrogen distribution on environmental hydrogen embrittlement of an Alâ€“Cuâ€“Mg alloy. International Journal of Hydrogen Energy, 2021, 46, 37502-37508.	3.8	26
10	Characterization of Dislocation Evolution in Cyclically Loaded Austenitic and Ferritic Stainless Steels via XRD Line-profile Analysis. ISIJ International, 2019, 59, 1591-1598.	0.6	22
11	Hydrogen absorption rate and hydrogen diffusion in a ferritic steel coated with a micro- or nanostructured ZnNi coating. Electrochemistry Communications, 2022, 134, 107169.	2.3	22
12	Effect of vacuum degree in VIM furnace on mechanical properties of Niâ€“Feâ€“Cr based alloy. Transactions of Nonferrous Metals Society of China, 2012, 22, 2124-2130.	1.7	20
13	Effect of dwelling time in VIM furnace on chemical composition and mechanical properties of a Niâ€“Feâ€“Cr alloy. Vacuum, 2019, 169, 108890.	1.6	19
14	Effect of Workâ€Hardening Mechanisms in Asymmetrically Cyclicâ€Loaded Austenitic Stainless Steels on Lowâ€Cycle and Highâ€Cycle Fatigue Behavior. Steel Research International, 2021, 92, .	1.0	19
15	Role of Ultrasonic Shot Peening in Environmental Hydrogen Embrittlement Behavior of 7075-T6 Alloy. Hydrogen, 2021, 2, 377-385.	1.7	18
16	The effect of removing worn particles by ultrasonic cleaning on the wear characterization of LM13 alloy. Surface Engineering and Applied Electrochemistry, 2015, 51, 382-388.	0.3	16
17	Combined thermal desorption spectroscopy, hydrogen visualization, HRTEM and EBSD investigation of a Niâ€“Feâ€“Cr alloy: The role of hydrogen trapping behavior in hydrogen-assisted fracture. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2022, 848, 143428.	2.6	13
18	Temperature mitigates the hydrogen embrittlement sensitivity of martensitic steels in slow strain rates. Vacuum, 2022, 202, 111187.	1.6	10

#	Article	IF	Citations
19	Investigation of the effects of temperature and exposure time on the corrosion behavior of a ferritic steel in CO2 environment using the optimized linear polarization resistance method. Results in Materials, 2022, 14, 100282.	0.9	8